

Title (en)

CEMENT ADMIXTURE, CONCRETE, AND PROCESS FOR PRODUCING FLUOROOXYALKYLENE COMPOUNDS

Title (de)

ZEMENTZUSATZMITTEL, BETON UND VERFAHREN ZUR HERSTELLUNG VON FLUOROOXYALKYLENEVERBINDUNGEN

Title (fr)

MELANGE A CIMENT, BETON, ET PROCEDE DE FABRICATION DE COMPOSES DE FLUOROOXYALYLENE

Publication

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Application

EP 97946060 A 19971127

Priority

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Abstract (en)

The present invention is the following invention which provides a cement admixture which satisfies fluidity of fresh concrete and high strength of the hardened product of concrete simultaneously. Namely, the present invention resides in a cement admixture which is a mixture of fluorine-containing compounds represented by the formula (1): $R_{<f>}-Q_{<1>}-O-(A_{<1>}-O)_k-R_{<1>}$ wherein $R_{<f>}$ is a C1-22 polyfluoroaliphatic hydrocarbon group which may contain etheral oxygen atoms or thioetheral sulfur atoms, $Q_{<1>}$ is a C1-5 linear or branched alkylene group, k is an integer of from 1 to 100, $A_{<1>}$ is a C2-4 linear alkylene group or a group having at least one hydrogen atom of said alkylene group substituted by a hydrocarbon group which may contain etheral oxygen atoms, provided that when k is from 2 to 100, the plurality of $A_{<1>}$ may be the same or different, and $R_{<1>}$ is a hydrogen atom, a C1-18 hydrocarbon group or a C1-18 acyl group, said mixture having a ratio of the weight average molecular weight (Mw) to the number average molecular weight (Mn) (i.e. Mw/Mn) of at least 1.1, and concrete which contains said cement admixture.

IPC 1-7

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Cited by

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